Electronic A	cknowledgement Receipt
EFS ID:	3813790
Application Number:	10619796
International Application Number:	
Confirmation Number:	7886
Title of Invention:	Sparse and efficient block factorization for interaction data
First Named Inventor/Applicant Name:	Francis X. Canning
Customer Number:	20995
Filer:	Lee W. Henderson/Alanna Wai
Filer Authorized By:	Lee W. Henderson
Attorney Docket Number:	CANNING.001CP2
Receipt Date:	20-AUG-2008
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Time Stamp:	19:05:03
Application Type:	Utility under 35 USC 111(a)

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# File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Amendment_CANNING-0010	515654	y <b>e</b> s	11
·		2.pdf	<b>4da692e16</b> 16bc4b5cc7fe50b25c883be735 319ab		

Multipart Description/PDF files in .zip description		
Document Description	Start	End
Amendment After Final	1	1
Claims	2	8
Applicant Arguments/Remarks Made in an Amendment	9	11

#### Warnings:

#### Information:

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### New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

### National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

#### New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.